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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/770,405	02/04/2004	Akio Iwase	461-158	2735	
23117	7590 04/22/2005		EXAMINER		
NIXON & VANDERHYE, PC 1100 N GLEBE ROAD			NGUYEN	NGUYEN, TAI V	
8TH FLOOR	Z KOND	,	ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22201-4714			3729		

DATE MAILED: 04/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/770,405	IWASE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tai Van Nguyen	3729				
 The MAILING DATE of this communication app Period for Reply 	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>24 May 2004</u> .						
/ · · · · · · · · · · · · · · · · ·						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-18 is/are pending in the application.						
4a) Of the above claim(s) 1-8 is/are withdrawn	4a) Of the above claim(s) <u>1-8</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9</u> is/are rejected.						
· — · · · · · · · · · · · · · · · · · ·	Claim(s) <u>10-18</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex						
1) The path of declaration is objected to by the Ex	diffinor. Note the diagnost of the					
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document)-(d) or (f).				
2. Certified copies of the priority document		ion No.				
3. Copies of the certified copies of the prior						
application from the International Burea						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)		·				
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/24/04</u>. 	Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Patent Application (PTO-152)				

Application/Control Number: 10/770,405 Page 3

Art Unit: 3729

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

5. The abstract of the disclosure is objected to because the abstract is not drawn to the claim invention, i. e. method. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 9, the phrase "the recess portion" lacks positive antecedent basis.

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Art Unit: 3729

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ashida Koki (JP 2000-054849), referred to hereinafter as JP'849, in view of Tanida Toshiki (JP 05-185211) referred to hereinafter as JP '211.

As applied to claim 9, JP '849 disclose a method of manufacturing a lamination-type piezoelectric element which includes a ceramic laminated body, in which ceramic layers and inner electrode layers are alternately laminated on each other, and also includes a pair of outer electrodes respectively joined to a pair of joining faces formed on an outer circumferential face of the ceramic laminated body, the method of manufacturing the lamination-type piezoelectric element comprising:

a laminated body forming step of forming the ceramic laminated body (1, Fig. 1); a groove (7) forming step of forming a dent portion coming into contact with an outer circumferential end portion of at least some part of joining faces on the outer circumferential face of the ceramic laminated body so as to form an outer circumferential groove portion, the shape of the recess portion of which is formed into a belt-shape, or the shapes of a plurality of recess portions connected with each other of which are formed into a belt-shape; and an embedding step of forming at least one of

Art Unit: 3729

an insulating portion (11) made of insulating material and a conductive portion made of conductive material (15) in the outer circumferential groove portion (see 57 of Abstract).

However, JP '849 does not disclose a groove forming step by irradiating with a laser beam. JP '211 teaches a groove forming step of forming a dent portion by irradiating with laser beam (see 57 Abstract). It would have been obvious to one ordinary skill in the art at this time the invention was made to have modified the JP 849' method by utilizing the groove forming step by irradiating a laser beam as taught by JP '211, to improve the laminating characteristics of the electronic parts (see Detailed Description 0001).

Allowable Subject Matter

9. Claims 10-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

Art Unit: 3729

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TN. March 16, 2005

> A. DEXTER TUGBANG PRIMARY EXAMINER